

PARENT

US 6,756,219 B1

29

30

-continued

<210> SEQ ID NO 28  
<211> LENGTH: 44  
<212> TYPE: DNA  
<213> ORGANISM: ARTIFICIAL SEQUENCE  
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<210> SEQ ID NO 29  
<211> LENGTH: 36  
<212> TYPE: DNA  
<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 29

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36

What is claimed is:

1. An isolated polypeptide that has phospholipase A2 activity that is encoded by a nucleic acid sequence that hybridizes to the complement of SEQ ID NO: 26 under stringent conditions, wherein stringent conditions comprise heating at 42° C. in 6×SSC, 0.5% SDS and 50% formamide and washing at 68° C. in 0.1×SSC and 0.5% SDS.

2. An isolated polypeptide that has phospholipase A2 activity that comprises SEQ ID NO: 27.

3. The polypeptide of claim 2 consisting of SEQ ID NO: 27.

4. The polypeptide of claim 1 that is a fragment of SEQ ID NO: 27.

5. The polypeptide of claim 1 that comprises amino acid residues 1 to 125 of SEQ ID NO: 27.

6. The polypeptide of claim 1 that comprises residues -20 to 125 of SEQ ID NO: 27.

7. The polypeptide of claim 1 that is a recombinant polypeptide expressed in a prokaryotic cell.

8. The polypeptide of claim 1 that is a recombinant polypeptide expressed in a eukaryotic cell.

9. A composition comprising the polypeptide of claim 1.

10. A composition comprising the polypeptide of claim 1 and a substrate, wherein said polypeptide is immobilized on said substrate.

11. The composition of claim 10, wherein said substrate is an insoluble polysaccharide.

12. The composition of claim 10, wherein said substrate is a synthetic resin.

13. The composition of claim 10, wherein said substrate is glass.

14. The composition of claim 10, wherein said substrate is silicon.

15. A diagnostic reagent comprising the polypeptide of claim 1.

16. An assay kit comprising the polypeptide of claim 1.

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Restricted DMAT Protein